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ABSTRACT OF THE DISCLOSURE

Two voltage regulators are provided with the input for the second voltage regulator series  
5 connected to the output of the first voltage regulator, and the first voltage regulator powering a  
first circuit as well as the second voltage regulator. The second voltage regulator powers another  
circuit at a lower voltage than the first circuit so that when the first circuit does not require a high  
voltage, the output voltage of the first voltage regulator is reduced, and, therefore, the input  
voltage to the second voltage regulator is reduced, decreasing the voltage drop across, and the  
10 power dissipated in, the second voltage regulator.